

ABSTRACT

There is disclosed a silicon carbide porous body of the present invention, comprising silicon carbide particles and metallic silicon bonded together in such a manner that pores are retained between the silicon carbide particles and/or between the silicon carbide particle and metallic silicon, wherein an oxide phase containing oxides of silicon, aluminum, and alkaline earth metal is buried in at least some of fine pore portions having a minimum distance of 10  $\mu\text{m}$  or less between the surfaces of the silicon carbide particles or between the surfaces of the silicon carbide particle and metallic silicon among the pores, and a ratio of a total volume (pore volume of the fine pore portion) of portions in which the oxide phase is not buried among the fine pore portions is 20% or less with respect to a total volume (total pore volume) of portions in which the oxide phase is not buried among the pores including the fine pore portions. This silicon carbide porous body is suitable for use as a material constituting, for example, a filter, a catalyst carrier or the like for automobile exhaust gas purification.